	Application No.	Applicant(s)
Notice of Allowability	09/866,008	KIM, KI HO
	Examiner	Art Unit	
	Samson B. Lemma	2132	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *amendment filled on 06/19/2005* .

2. ☒ The allowed claim(s) is/are *1-5, 9-14, 18-22 and 26*.

3. ☒ The drawings filed on *24 May 2001* are accepted by the Examiner.

4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a) ☐ All   b) ☐ Some*   c) ☐ None   of the:

        1. ☐ Certified copies of the priority documents have been received.

        2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

        3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the
           International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

        1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____ .

    (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of
        Paper No./Mail Date _____ .

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
    Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit
    of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☐ Interview Summary (PTO-413),
    Paper No./Mail Date _____ .

7. ☐ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

DETAILED ACTION

1.   <u>Claims 6-8; 15-17 and 23-25</u> have been cancelled.

3.   <u>Claims 1-5; 9-14; 18-22 and 26</u> have been amended.

4.   <u>No new claims have been</u> added.

Allowable Subject Matter

5.   <u>Claims 1-5; 9-14; 18-22 and 26</u> are allowed.

6.   The following is an examiner's statement of reasons for allowance:

7.   With respect to the independent claims 1, the art on the record, namely

the combination of **Dent** and **Globalstar** discloses all of the limitation of the

recited claim 1 before the claim was amended.

However claim 1 is amended by the applicant and new limitation has been

added and the art on the record namely the combination of **Dent** and

Globalstar does not disclose or suggest the particular added limitation of

the respective claims 1 which is recited as follows " <u>A terminal for CDMA</u>

<u>mobile communication system or IS-95 standard having data protection</u>

<u>function</u> comprising,....

        <u>A vocoder framer adding a format bit/format bits indicating the</u>

<u>vocoder rate and, as a result, generating the encrypted vocoder frame;</u> and

A vocoder deframer deleting a format bit/format bits idicating the vocoder rate from the encrypted vocoder frame and, as a result, extracting the encrypted vocder packet;

A decryptor decrypting the encrypted vocder packet extracted by said vocoder deframer ."

None of the prior art of record taken singularly of in combination teaches or suggests an apparatus with all the limitations recited in respective claims in combination with the following functional limitation which is added after amendement. "A terminal for CDMA mobile communication system or IS-95 standard having data protection function comprising,....

A vocoder framer adding a format bit/format bits indicating the vocoder rate and, as a result, generating the encrypted vocoder frame; and

A vocoder deframer deleting a format bit/format bits idicating the vocoder rate from the encrypted vocoder frame and, as a result, extracting the encrypted vocder packet;

A decryptor decrypting the encrypted vocder packet extracted by said vocoder deframer ."

For the reasons provided above, the amended independent claim 1 is allowed.

8.   The dependent claims 2-5 & 9, which are dependent on the independent claim 1 being further limiting to the independent claims, definite and enabled by the specification are also allowed.

9.   With respect to the independent method claim 10 the art on the record, namely the combination of **Dent and Globalstar** discloses all the limitation of the recited claim 10 before the claim was amended. However, after it is amended a new limitation has been added and the art on the record namely the combination of **Dent and Globalstar** does not disclose or suggest the following particular limitation of the respective claim 10, " <u>A method for encrypting and transmitting information bit in CDMA mobile communication system of IS-95 standard</u>, comprising the steps of:

" <u>adding a format bit/format bits indicating the vocoder rate, resulting the encrypted vocoder frame, and then adding</u> a frame quality indicator and the encoder tall bits to the encrypted vocoder <u>frame</u> and configuring it as a CDMA frame. "

None of the prior art of record taken singularly of in combination teaches or suggests a method of for encrypting and transmitting information bit in CDMA mobile communication system of IS-95 standard with all the limitations recited in respective claim 10 in combination with the above underlined functional limitation.

For the reasons mentioned above, the amended independent claim <u>10</u> is also allowed.

10.   <u>The dependent claims 11-14 & 18, which are dependent on the</u>

<u>independent claim 10</u> being further limiting to the independent claims, definite and

enabled by the specification are also allowed.

11.   With respect to the independent method claim 19 the art on the record,

namely the combination of **Dent and Globalstar** discloses all the limitation of the

recited claim 19 before the claim was amended. However, after it is amended a new

limitation has been added and the art on the record namely the combination of **Dent**

and Globalstar does not disclose or suggest the following particular limitation of

the respective claim 19, " <u>A method for receiving and decrypting information bit</u>

<u>encrypted by terminal for CDMA mobile communication system of IS-95 standard</u>:

comprising the steps of

      " extracting an encrypted vocoder <u>frame </u>from the reproduced CDMA frame;

      and

      <u>Extracting the encrypted vocoder packer from the extracted vocder</u>

      <u>frame.</u>"

      None of the prior art of record taken singularly of in combination teaches or

      suggests a method A method for receiving and decrypting information bit

      encrypted by terminal for CDMA mobile communication system of IS-95

      standard with all the limitations recited in respective claim 19 in combination

      with the above underlined functional limitation.

For the reasons mentioned above, the amended independent claim **19** is also

allowed.

12.   **The dependent claims 20-22 & 26, which are dependent on independent**

claim 19 being further limiting to the independent claims, definite and enabled by

the specification are also allowed.

Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should

preferably accompany the issue fee. Such submission should be clearly labeled

"Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from

the examiner should be directed to Samson B Lemma whose telephone number is

571-272-3806. The examiner can normally be reached on Monday-Friday (8:00 am -

-4: 30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, BARRON JR GILBERTO can be reached on. The fax phone

number for the organization where this application or proceeding is assigned is 571-

272-3799.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

GILBERTO BARRON JR.
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100

SAMSON LEMMA
S·L.
06/24/2005